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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/009,051	04/22/2002		Stefan-Horea Culca	20798/0204662-US0	4397
7278	7590	09/07/2006		EXAM	INER
DARBY &	DARBY	Y P.C.	LUGO, DAVID B		
P. O. BOX 5257 NEW YORK, NY 10150-5257				ART UNIT	PAPER NUMBER
TOTAL TOTAL		.0.50 525.		2611	
				DATE MAILED: 09/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/009,051	CULCA, STEFAN-HOREA
Office Action Summary	Examiner	Art Unit
	David B. Lugo	2611
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may be arrived patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 22 2a) This action is FINAL. 2b) T 3) Since this application is in condition for allow closed in accordance with the practice under 	his action is non-final. wance except for formal ma	·
Disposition of Claims		
4) ⊠ Claim(s) 10-20 is/are pending in the applicated 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 10-16,18 and 20 is/are rejected. 7) ⊠ Claim(s) 17 and 19 is/are objected to. 8) □ Claim(s) are subject to restriction and	Irawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on 22 April 2002 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the constant of	a)⊠ accepted or b)⊡ obje the drawing(s) be held in abeya rection is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur * See the attached detailed Office action for a li	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/6/01.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10-16, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spracklen et al. U.S. Patent 4,337,465 in view of Price et al. U.S. Patent 5,736,796.
- 3. Regarding claim 10, Spracklen discloses a data transmission system comprising a first circuit part or transceiver communicating with a second circuit part or transceiver (i.e. nodes 11 Fig. 1), where each transceiver includes a transmitter having a transmitter terminal (Fig. 4B), and a receiver including a receiver terminal (Fig. 4C), where the transceiver transmits and receives data over the transmission line via terminals TXD (Fig. 4B) and RXD (Fig. 4C), respectively, for communicating with other transceivers, and where the transceivers are connected to each other via the transmission line, as shown in Figure 1. Spracklen further shows a current source, shown in Figure 7, that feeds current into the transmission line (col. 7, lines 16-18) so that a first signal state of the receiver of the first circuit part (i.e. SYNC WAIT state) is capable of being changed as a function of a second signal state of the transmitter of second circuit part (i.e. PACKET state), and a third signal state of the receiver of the second circuit part (i.e. SYNC WAIT state) is capable of being changed as a function of a fourth signal state of the transmitter of first circuit part (i.e. PACKET state), as Spracklen discloses that when data is to be transmitted, the transceiver is in a SYNC WAIT state while it checks to see if the channel is

IDLE (see state diagram - Fig. 3A), and if the channel is not IDLE (i.e. the channel is in a packet-being-transmitted state meaning the other transceiver is in a PACKET state), then the transceiver remains in the SYNC WAIT state, otherwise it moves to the PACKET state. Further, the second transceiver (second circuit part) operates in a complementary fashion. Spracklen does

Price discloses a communication system in Figure 4 where two communication units are connected via a transmission line 72 and a reference potential line (i.e. GND). It would have been obvious to one of ordinary skill in the art to employ the teachings of Price of using a reference potential line in the system of Spracklen in order to provide a common path to ground, as is well known in electrical circuit design.

not expressly show terminals at each circuit part for a reference potential line.

Regarding claim 11, each of the transceivers is described as being associated with a resident computer (col. 5, lines 25-27), where the computer inherently includes a display and a processor, and further includes an operating control unit (bus control 21 – Fig. 4A), and a plurality of signal inputs and outputs as shown in Figures 4A-4C. Spracklen does not expressly state that the components are disposed in a common housing. However, it is well known in the art to provide components in a single housing to reduce the length of the lines connecting the components. Therefore, it would have been obvious to one of ordinary skill in the art to implement the components in a common housing in order to reduce the length of the lines connecting the components thereby eliminating noise associated with long transmission lines.

Regarding claim 12, it is well known in the art for computers to include processing units having microcontrollers. It would have been obvious to one of ordinary skill in the art to use microcontrollers in the computers of Spracklen as a matter of design consideration.

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Regarding claim 13, the transceiver is described as being associated with a resident computer (col. 5, lines 25-27), where the computer inherently includes a display and a processor, and further includes an operating control unit (bus control 21 – Fig. 4A), and a plurality of signal inputs and outputs as shown in Figures 4A-4C, wherein the second transceiver is considered to expand a function of the first unit. Spracklen does not expressly state that the components are disposed in a common housing. However, it is well known in the art to provide components in a single housing to reduce the length of the lines connecting the components. Therefore, it would have been obvious to one of ordinary skill in the art to implement the components in a common housing in order to reduce the length of the lines connecting the components thereby eliminating noise associated with long transmission lines.

Regarding claim 14, it is well known in the art for computers to include processing units having microcontrollers. It would have been obvious to one of ordinary skill in the art to use microcontrollers in the computers of Spracklen as a matter of design consideration.

Regarding claim 15, Spracklen shows in Figure 7 that the current source is integrated in the unit.

Regarding claim 16, Spracklen shows in Figure 7 that the transceivers include a semiconductor switch (transistor 55).

Regarding claim 18, Spracklen states that the current source is a constant current source (col. 7, lines 16-19).

Regarding claim 20, Spracklen shows in Figure 7 that the current source includes an ohmic resistor 57 connected to a supply potential 56 with a first end, and to the data transmission line via transformer 44 with a second end thereof.

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Allowable Subject Matter

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4. Claims 17 and 19 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David B. Lugo whose telephone number is 571-272-3043. The

examiner can normally be reached on M-F; 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David B. Lugo

Patent Examiner

9/4/06